Dividing Polynomials by Binomials
No Remainders

MATH MONKS

1 $\dfrac{-2p^3 - 18p^2 - 14p + 2}{p + 1}$

2 $\dfrac{3x^5 - 75x^3}{x^2 - 25}$

3 $\dfrac{4h^4 + 32h^3 - 36h^2}{4h^3 + 36h^2}$

4 $\dfrac{2m^3 - 7m^2 - 10m + 35}{m^2 - 5}$

5 $\dfrac{49y^5 + 84y^4 + 36y^3}{7y + 6}$

6 $\dfrac{3d^3 - 13d^2 + 18d - 288}{d - 6}$

7 $\dfrac{4b^2 + 9b - 90}{b + 6}$

8 $\dfrac{x^3 - 5x^2 + 8x - 40}{x^2 + 8}$

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Answers

$$\frac{-2p^3 - 18p^2 - 14p + 2}{p + 1}$$

$-2(p^2 + 8p - 1)$

$$\frac{4h^4 + 32h^3 - 36h^2}{4h^3 + 36h^2}$$

$h - 1$

$$\frac{49y^5 + 84y^4 + 36y^3}{7y + 6}$$

$y^3(7y + 6)$

$$\frac{4b^2 + 9b - 90}{b + 6}$$

$4b - 15$

$$\frac{3x^5 - 75x^3}{x^2 - 25}$$

$3x^3$

$$\frac{2m^3 - 7m^2 - 10m + 35}{m^2 - 5}$$

$2m - 7$

$$\frac{3d^3 - 13d^2 + 18d - 288}{d - 6}$$

$3d^2 + 5d + 48$

$$\frac{x^3 - 5x^2 + 8x - 40}{x^2 + 8}$$

$x - 5$